



PATENT

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March 1, 2004
Date

Ayesha J. Shaikh
Ayesha J. Shaikh

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/757,126	Confirmation No. : Not Yet Assigned
Applicant : Howard C. Kirsch	
Filed : January 13, 2004	Attorney Docket No.: 501048.04 (30010/US/2)
Art Unit : Not Yet Assigned	Customer No. : 27,076
Examiner : Not Yet Assigned	
Title : SYNCHRONOUS MIRROR DELAY (SMD) CIRCUIT AND METHOD INCLUDING A RING OSCILLATOR FOR TIMING COARSE AND FINE DELAY INTERVALS	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/232,475, filed August 29, 2002. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in this prior application and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he

is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 09/989,209, describing and claiming subject matter that is similar to the subject matter of this application, was filed on November 19, 2001. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/763,038, describing and claiming subject matter that is similar to the subject matter of this application, was filed on January 21, 2004. This related application, which is a continuation of above-referenced Application No. 09/989,209, filed November 19, 2001, as well as any prior art cited therein, may be material to the examination of this application. The specification, claims, abstract and drawings of these related applications as filed are identical, therefore a duplicate copy is not submitted herewith.

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 09/974,386, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 9, 2001. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/269,398, describing and claiming subject matter that is similar to the subject matter of this application, was filed on October 10, 2002. This related application, which is a divisional of above-referenced Application No. 09/974,386, filed October 9, 2001, as well as any prior art cited therein, may be material to the examination of this application. The specification, claims, abstract and drawings of these related applications as filed are identical, therefore a duplicate copy is not submitted herewith.

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/176,865, describing and claiming subject matter that is similar to the subject matter of this application, was filed on June 20, 2002. This related application, as well as

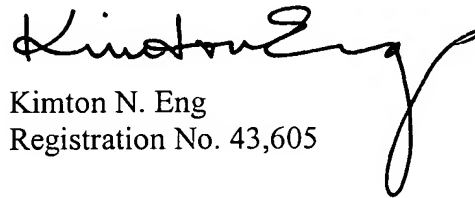
any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/411,853, describing and claiming subject matter that is similar to the subject matter of this application, was filed on April 11, 2003. This related application, which is a divisional of above-referenced Application No. 10/176,865, filed June 20, 2002, as well as any prior art cited therein, may be material to the examination of this application. The specification, claims, abstract and drawings of these related applications as filed are identical, therefore a duplicate copy is not submitted herewith.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP



Kimton N. Eng
Registration No. 43,605

KNE:ajs

Enclosures:

Postcard
Form PTO-1449
Copies of Related Applications (3)

1420 Fifth Avenue, Suite 3400
Seattle, WA 98101
Telephone (206) 903-8800
Facsimile (206) 903-8820

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FORM PTO-1449
(REV.7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
501048.04 (30010/US/2)APPLICATION NO.
10/757,126

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Howard C. KirschFILING DATE
January 13, 2004GROUP ART UNIT
Not Yet Assigned

U.S. PATENT DOCUMENTS



EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,965,810	10/23/90	Peischl et al.	375	80	
AB	5,077,686	12/31/91	Rubinstein	395	550	
AC	5,233,316	08/03/93	Yamada et al.	331	45	
AD	5,574,508	11/12/96	Diamant	348	511	
AE	5,675,273	10/07/97	Masleid	327	156	
AF	5,757,218	05/26/98	Blum	327	175	
AG	5,910,740	06/08/99	Underwood	327	149	
AH	5,946,244	08/31/99	Manning	365	194	
AI	5,955,905	09/21/99	Idei et al.	327	160	
AJ	6,069,508	05/30/00	Takai	327	161	
AK	6,087,868	07/11/00	Millar	327	156	
AL	6,107,891	08/22/00	Coy	331	18	
AM	6,194,932 B1	02/27/01	Takemae et al.	327	158	
AN	6,239,641 B1	05/29/01	Lee	327	270	
AO	6,240,042 B1	05/29/01	Li	365	233	
AP	6,304,117 B1	10/16/01	Yamazaki et al.	327	158	
AQ	6,310,822 B1	10/30/01	Shen	365	233	
AR	6,330,197 B1	12/11/01	Currin et al.	365	194	
AS	6,373,307 B1	04/16/02	Takai	327	161	
AT	6,378,079 B1	04/23/02	Mullarkey	713	401	
AU	6,404,248 B1	06/11/02	Yoneda	327	158	
AV	6,426,900 B1	07/30/02	Maruyama et al.	365	194	
AW	6,480,047 B2	11/12/02	Abdel-Maguid et al.	327	161	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501048.04 (30010/US/2)	APPLICATION NO. 10/757,126
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT(S) Howard C. Kirsch	
		FILING DATE January 13, 2004	GROUP ART UNIT Not Yet Assigned

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AX	6,484,268 B2	11/19/02	Tamura et al.	713	600	
	AY	6,556,489 B2	04/29/03	Gomm et al.	365	194	
	AZ	2002/0167346 A1	11/14/02	Yoon et al.	327	158	
	BA	2002/0176315 A1	11/28/02	Graaff	365	233	
	BB	2002/0180499 A1	12/05/02	Kim et al.	327	158	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BC							
	BD							

		OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	BE	Chae, Jeong-Seok et al., "Wide Range Single-Way-Pumping Synchronous Mirror Delay", IEEE Electronics Letter Online No. 20000711, February 11, 2000, pp. 939-940.
	BF	Jang, Seong-Jin et al., "A Compact Ring Delay Line for High Speed Synchronous DRAM, IEEE Symposium on VLSI Circuits Digest of Technical Papers, 1998, pp. 60-61.
	BG	Kuge, Shigehiro et al., "A 0.18 μ m 256Mb DDR-SDRAM with Low-Cost Post-Mold-Tuning Method for DLL Replica", IEEE International Solid-State Circuits Conference, February 2000, pp. 402-403.
	BH	Saeki, Takanori et al., "A 2.5ns Clock Access 250MHz 256Mb SDRAM with a Synchronous Mirror Delay", IEEE International Solid-State Circuits Conference, February 1996, pp. 374-375.
	BI	Takai, Yasuhiro et al., "A 250Mb/s/pin 1Gb Double Data Rate SDRAM with a Bi-Directional Delay and an Inter-Bank Shared Redundancy Scheme, 1999.

EXAMINER	DATE CONSIDERED
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	